

SEQUENCE LISTING

<110> Serum Biomedical Institute
 <120> METHOD OF PRODUCING RECOMBINANT DNA MOLECULES
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 <150> US 60/480581
 <151> 2003-06-20
 <150> US 60/493586
 <151> 2003-08-07
 <160> 31
 <170> PatentIn version 3.1

<210> 1
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1909)
 <223> cDNA sequence for human b-FSH

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 <213> Homo sapiens

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 <222> (1)..(5)
 <223> β -FSH signal sequence

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<210> 3
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 <213> Homo sapiens

<220>
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 <223> exon #1 of human β -FSH (NM_000510)

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1 5 10 15

tgc tgc aat agc tgt gag ctg acc aac atc acc att gca ata gag aaa 96
Cys Cys Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys
20 25 30

gaa gaa tgt cgt ttc tgc ata agc atc aac acc act tgg tgt gct ggc 144
Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly
35 40 45

tac tgc tac acc agg
Tyr Cys Tyr Thr Arg 159
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<210> 4
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 <213> Homo sapiens

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 acc ttc aag gaa ctg gta tat gaa aca gtg aga gtg ccc ggc tgt gct 96
 Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro Gly Cys Ala
 20 25 30
 cac cat gca gat tcc ttg tat aca tac cca gtg gcc acc cag tgt cac 144
 His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr Gln Cys His
 35 40 45
 tgt ggc aag tgt gac agc gac agc act gat tgt act gtg cga ggc ctg 192
 Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val Arg Gly Leu
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 65 70 75

<210> 5
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 <212> PRT
 <213> Homo sapiens

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 Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly
 35 40 45
 Tyr Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys
 50 55 60
 Ile Gln Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg
 65 70 75 80
 Val Pro Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val
 85 90 95
 Ala Thr Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys
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<210> 6
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 <212> DNA

<213> Artificial Sequence

<220>

<223> β -FSH X1X2 PCR product

<300>

<308> GenBank / NM_000510

<309> 2002-11-05

<313> (1)..(390)

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atcaacacca cttggtgtgc tggctactgc tacaccaggg atctggtgta taaggaccca      180
gccaggccca aaatccagaa aacatgtacc ttcaaggaac tggatatatga aacagtgaga      240
gtgcccggct gtgctcacca tgcagattcc ttgtatacat acccagtggc caccagtgt      300
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<210> 7

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<223> primer PFX1 n.t. position 40-64 in SEQ ID NO: 1, cDNA sequence
for human β -FSH

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25

<210> 8

<211> 21

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<220>

<223> primer PRX1 n.t. position 198-178 in SEQ ID NO: 1, cDNA sequence
for human β -FSH

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21

<210> 9

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> primer PFX2 n.t. position 199-219 in SEQ ID NO: 1, cDNA sequence
for human β -FSH

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21

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<213> Artificial Sequence

<220>

<223> primer PRX2 n.t. position 429-407 in SEQ ID NO: 1, cDNA sequence for human β -FSH

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<220>

<223> primer PRX1-PFX2'

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<210> 12
<211> 39
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<213> Artificial Sequence

<220>

<223> primer SDK-PFX1

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<212> DNA
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<220>

<221> misc_feature
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<223> X1UR product

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tgtgagctga ccaacatcac cattgcaata gagaaagaag aatgtcgttt ctgcataagc 120
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<221> misc_feature
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<223> alpha-FSH (NM_000735) full length cDNA sequence

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atgcagctat ctttctggtc acattgtcgg tgtttctgca tgttctccat tccgctcctg 180

atgtgcagga ttgcccagaa tgcacgctac aggaaaaccc attcttctcc cagccgggtg 240
 ccccaatact tcagtgcatt ggctgctgct tctctagagc atatcccact ccactaaggt 300
 ccaagaagac gatgttggtc caaaagaacg tcacctcaga gtccacttgc tgtgtagcta 360
 aatcatataa cagggtcaca gtaatggggg gtttcaaagt ggagaaccac acggcgtgcc 420
 actgcagtac ttgttattat cacaaatctt aaatgtttta ccaagtgtg tcttgatgac 480
 tgctgatttt ctggaatgga aaattaagtt gtttagtggt tatggctttg tgagataaaa 540
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 ccttcctcct tctctacag tacaatcagc agtctagttc ttttcatttg gaatgaatac 660
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<210> 15
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer HCG-SENT

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<210> 16
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer HCG-ANTISENT

<400> 16
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<210> 17
 <211> 351
 <212> DNA
 <213> Artificial Sequence

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 <223> glycalA - RT-PCR product

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<210> 18
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 <213> Artificial Sequence

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 <223> PCR primer HCG-SENTCACC
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34

<210> 19
 <211> 355
 <212> DNA
 <213> Artificial Sequence

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 <223> PCR product CACCglycAlA
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 <213> Artificial Sequence

<220>
 <223> PCR product AB-FSH
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 ttcttctccc agccgggtgc cccaatactt cagtgcattg gctgctgctt ctctagagca 180
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 gagaaccaca cggcgtgcca ctgcagtact tgttattatc acaaactctaa tagctgtgag 360
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 cccaaaatcc agaaaacatg taccttcaag gaactggtat atgaaacagt gagagtgcctc 540
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 tcctttgggtg aaatgaaaga ataa 684

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 <212> DNA
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 <223> PCR forward primer PFMX2
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 <212> DNA
 <213> Artificial Sequence

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 <223> PCR product S-FSH-B
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<210> 23
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 <212> DNA
 <213> Artificial Sequence

<220>
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<210> 24
 <211> 348
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR product glycalwOTAA
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<210> 25
 <211> 51
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 <213> Artificial Sequence

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<223> hybrid reverse primer ABLIGATION

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ttggtcagct cacagctatt agatttgtga taataacaag tactgcagtg g

51

<210> 26

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<212> DNA

<213> Artificial Sequence

<220>

<223> PCR product glycalwoTAAUR

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ctgaccaa 368

<210> 27

<211> 227

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide AB-FSH

<400> 27

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20 25 30
Glu Cys Thr Leu Gln Glu Asn Pro Phe Phe Ser Gln Pro Gly Ala Pro
35 40 45
Ile Leu Gln Cys Met Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro
50 55 60
Leu Arg Ser Lys Lys Thr Met Leu Val Gln Lys Asn Val Thr Ser Glu
65 70 75 80
Ser Thr Cys Cys Val Ala Lys Ser Tyr Asn Arg Val Thr Val Met Gly
85 90 95
Gly Phe Lys Val Glu Asn His Thr Ala Cys His Cys Ser Thr Cys Tyr
100 105 110
Tyr His Lys Ser Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile
115 120 125
Glu Lys Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys
130 135 140
Ala Gly Tyr Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg
145 150 155 160

Pro Lys Ile Gln Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr
 165 170 175
 Val Arg Val Pro Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr
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 Pro Val Ala Thr Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr
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 Asp Cys Thr Val Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu
 210 215 220
 Met Lys Glu
 225

<210> 28
 <211> 561
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(561)
 <223> cDNA sequence of INF-beta without stop codon

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<210> 29
 <211> 513
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 <213> Homo sapiens

<220>
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 <223> INF-alpha-2B sequence with enterokinase site

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<210> 30
 <211> 1074
 <212> DNA
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<220>
 <221> misc_feature
 <222> (1)..(1074)
 <223> INF-beta/INF-alpha-2B sequence with enterokinase site

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 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1059)
 <223> INF-beta/INF-alpha-2B sequence without enterokinase site

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